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ABSTRACT

This book offers a broad vision for improving science education that is at times historical and philosophical and also concrete and practical. It discusses several themes including: a clarification of scientific literacy; a systemic perspective on reform; a standards-based approach to improving science education; and an emphasis on science teaching and student learning. The book addresses the critical challenge of transforming issues from national standards to state and local practices, and ultimately to the classroom, with the aim of developing greater coherence and consistency in science education. This is a book for anyone concerned about the future of science education. It will help classroom teachers and administrators with both the larger perspective of reform and the practical issues of improving their programs and practices. Scientists and engineers who support and influence school science programs and teachers and policymakers who identify and address critical issues of educational reform will also find this book valuable. (AA)

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